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| FORM PTO-1390 (Modified) (REV. 11-2000) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | ATTORNEY'S DOCKET NUMBER 588.1042 | |
| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371 | | U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR 10/521519 | |
| INTERNATIONAL APPLICATION NO. PCT/DE2003/002390 | INTERNATIONAL FILING DATE 17 July 2003 | PRIORITY DATE CLAIMED 18 July 2002 | |
| TITLE OF INVENTION HYDRAULIC ACTUATION SYSTEM | | | |
| APPLICANT(S) FOR DO/EO/US WELTER et al. | | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | | |
| 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected by the expiration of 19 months from the priority date (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c) (2)) a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. <input checked="" type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)). 11. <input type="checkbox"/> A copy of the International Preliminary Examination Report (PCT/IPEA/409). 12. <input checked="" type="checkbox"/> A copy of the International Search Report (PCT/ISA/210). | | | |
| Items 13 to 20 below concern document(s) or information included: | | | |
| 13. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 14. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 15. <input checked="" type="checkbox"/> A FIRST preliminary amendment. 16. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment. 17. <input type="checkbox"/> A substitute specification. 18. <input type="checkbox"/> A change of power of attorney and/or address letter. 19. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825. 20. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4). 21. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 22. <input checked="" type="checkbox"/> Express Mail Label No. <u>EV 382794400US</u> 23. <input checked="" type="checkbox"/> Other items or information: Letter re: Priority Application Data Sheet | | | |

U.S. APPLICATION NO. (IF KNOWN) 107521519

INTERNATIONAL APPLICATION NO.
PCT/DE2003/002390ATTORNEY'S DOCKET NUMBER
588.1042

24. The following fees are submitted:

BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)) :

| | |
|--|-----------|
| <input type="checkbox"/> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO | \$1080.00 |
| <input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO | \$920.00 |
| <input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO | \$770.00 |
| <input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) | \$730.00 |
| <input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) | \$100.00 |

CALCULATIONS PTO USE ONLY

ENTER APPROPRIATE BASIC FEE AMOUNT =

\$1,000.00

Surcharge of \$130.00 for furnishing the oath or declaration later than 20 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).

\$0.00

| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | |
|--|--------------|--------------|--------------------------|--------|
| Total claims | 17 - 20 = | 0 | x \$50.00 | \$0.00 |
| Independent claims | 2 - 3 = | 0 | x \$200.00 | \$0.00 |
| Multiple Dependent Claims (check if applicable). | | | <input type="checkbox"/> | \$0.00 |

TOTAL OF ABOVE CALCULATIONS =

\$1,000.00

| | |
|--|--------|
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2. | \$0.00 |
|--|--------|

SUBTOTAL =

\$1,000.00

Processing fee of \$130.00 for furnishing the English translation later than 20 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).

+ \$0.00

TOTAL NATIONAL FEE =

\$1,000.00

Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable).

 \$0.00

TOTAL FEES ENCLOSED =

\$1,000.00

| | |
|------------------------|----|
| Amount to be: refunded | \$ |
| charged | \$ |

- A check in the amount of \$1,000.00 to cover the above fees is enclosed.
- Please charge my Deposit Account No. _____ in the amount of _____ to cover the above fees.
- The Director is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-0552
- Fees are to be charged to a credit card. **WARNING: Information on this form may become public. Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

Davidson, Davidson & Kappel, LLC
 William C. Gehris, Esq.
 485 Seventh Avenue, 14th Floor
 New York, NY 10018
 USA



SIGNATURE

William C. Gehris

NAME

38,156

REGISTRATION NUMBER

January 18, 2005

DATE

10/521519

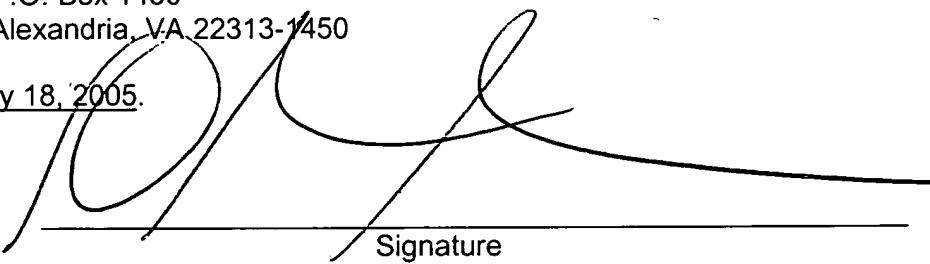
Certificate of Express Mailing under 37 CFR 1.10

I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 in an envelope addressed to:

Mail Stop: PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

on January 18, 2005.

Date



Signature

Shane Underdue

Typed or printed name of person signing Certificate

EV 382794400 US

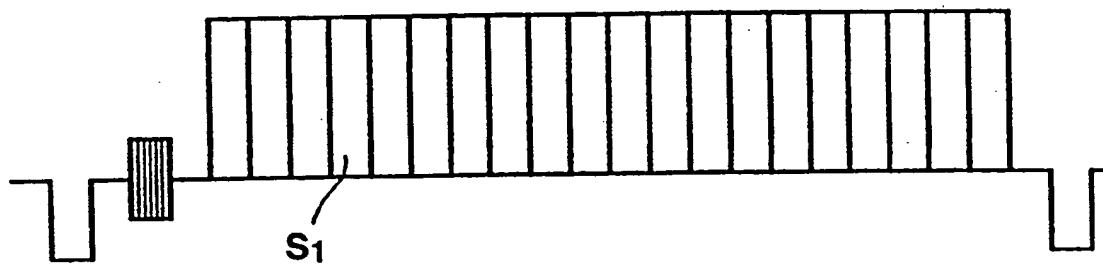
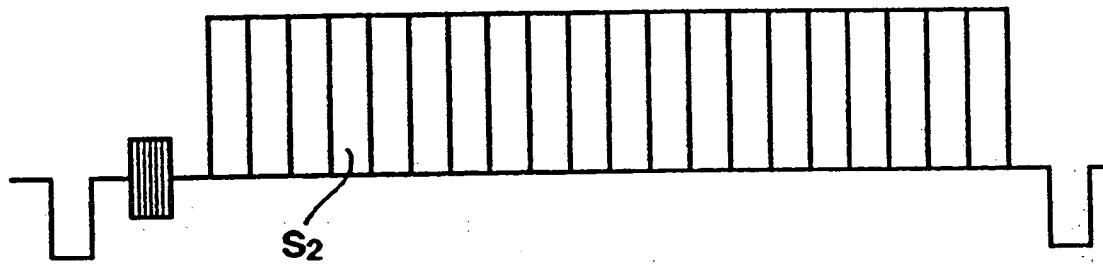
("Express Mail" Mailing Label Number)

Note: Each paper must have its own certificate of mailing by Express Mail, or this certificate must identify each submitted paper.

Re.: Docket No.: 588.1042
Applicant(s): WELTER et al.
Serial No.: To be assigned
Invention: HYDRAULIC ACTUATION SYSTEM
Filing Date: Herewith

- Transmittal Letter to the U.S. Designated/Elected Office Concerning a Filing Under 35 U.S.C 371 (2 pages);
- Copy of Int. Patent Application PCT/DE2003/002390 w/ Int. Search Report (14 double-sided pages);
- Translation of Int. Patent Application PCT/DE2003/002390 (16 pages);
- Three (3) Sheets of Drawings;
- Preliminary Amendment (9 pages);
- Unexecuted Declaration and PoA (2 pages);
- Application Data Sheet (2 pages);
- Letter re: Priority (1 page);
- Information Disclosure Statement w/ PTO 1449 and Copies of Cited References;
- Check for \$ 1,000.00;

This collection of information is required by 37 CFR 1.10. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.8 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

**FIG.5****FIG.6**

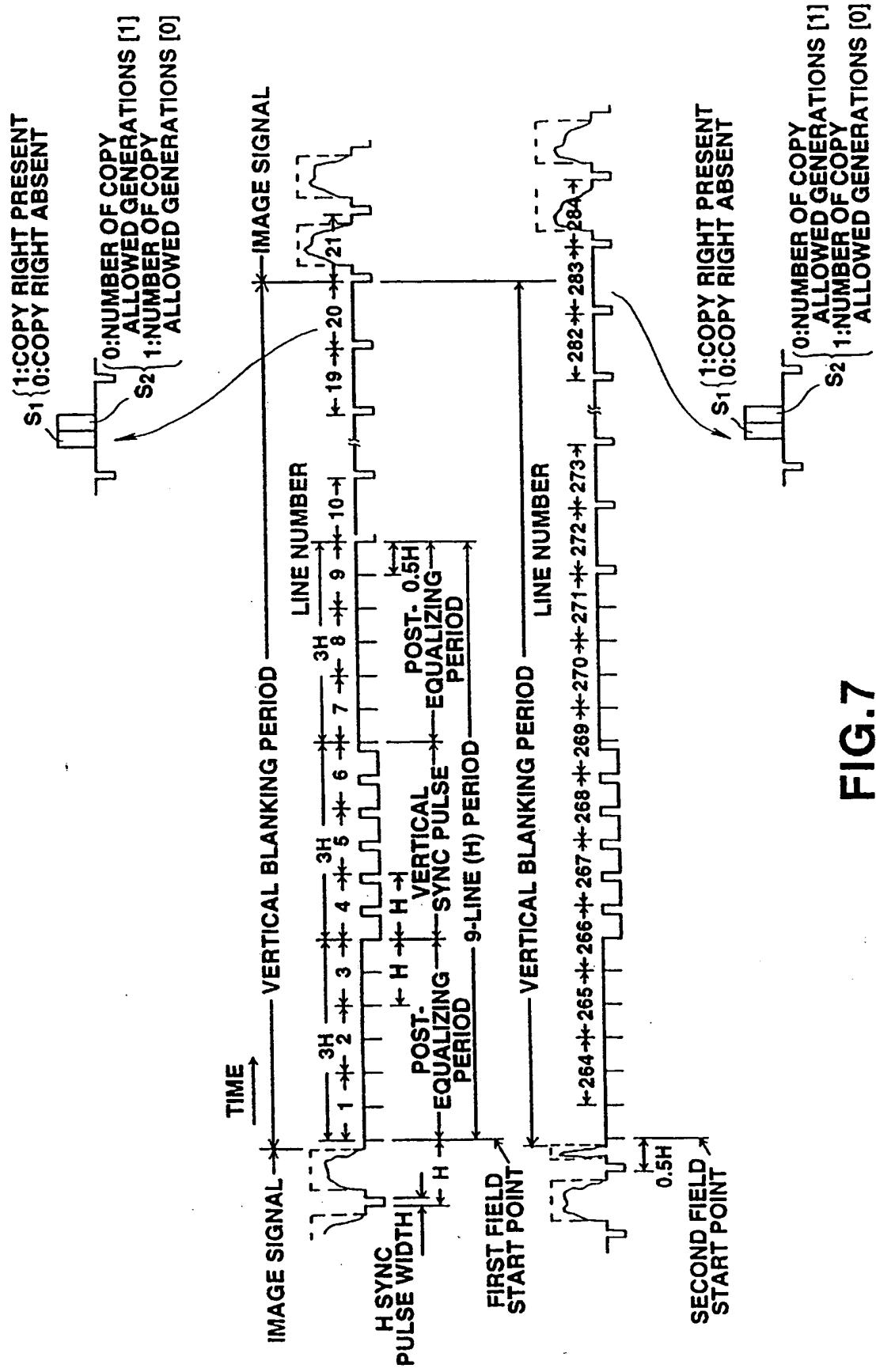


FIG. 7

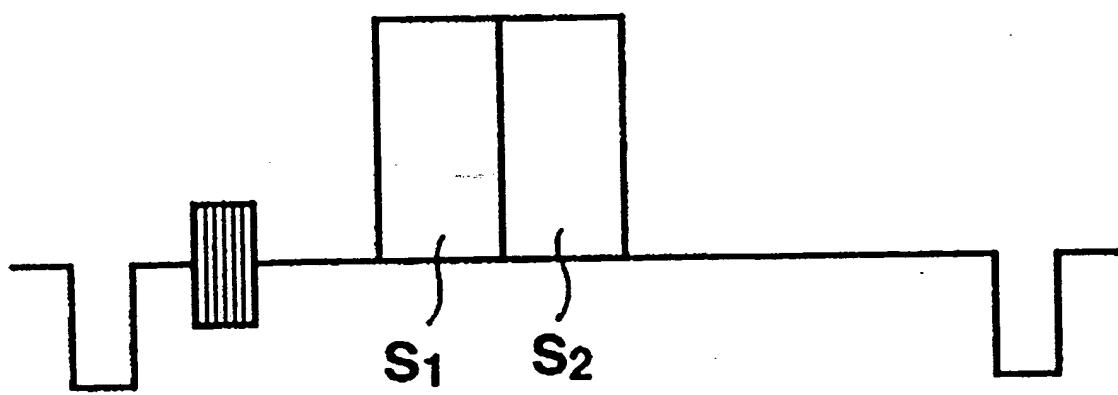
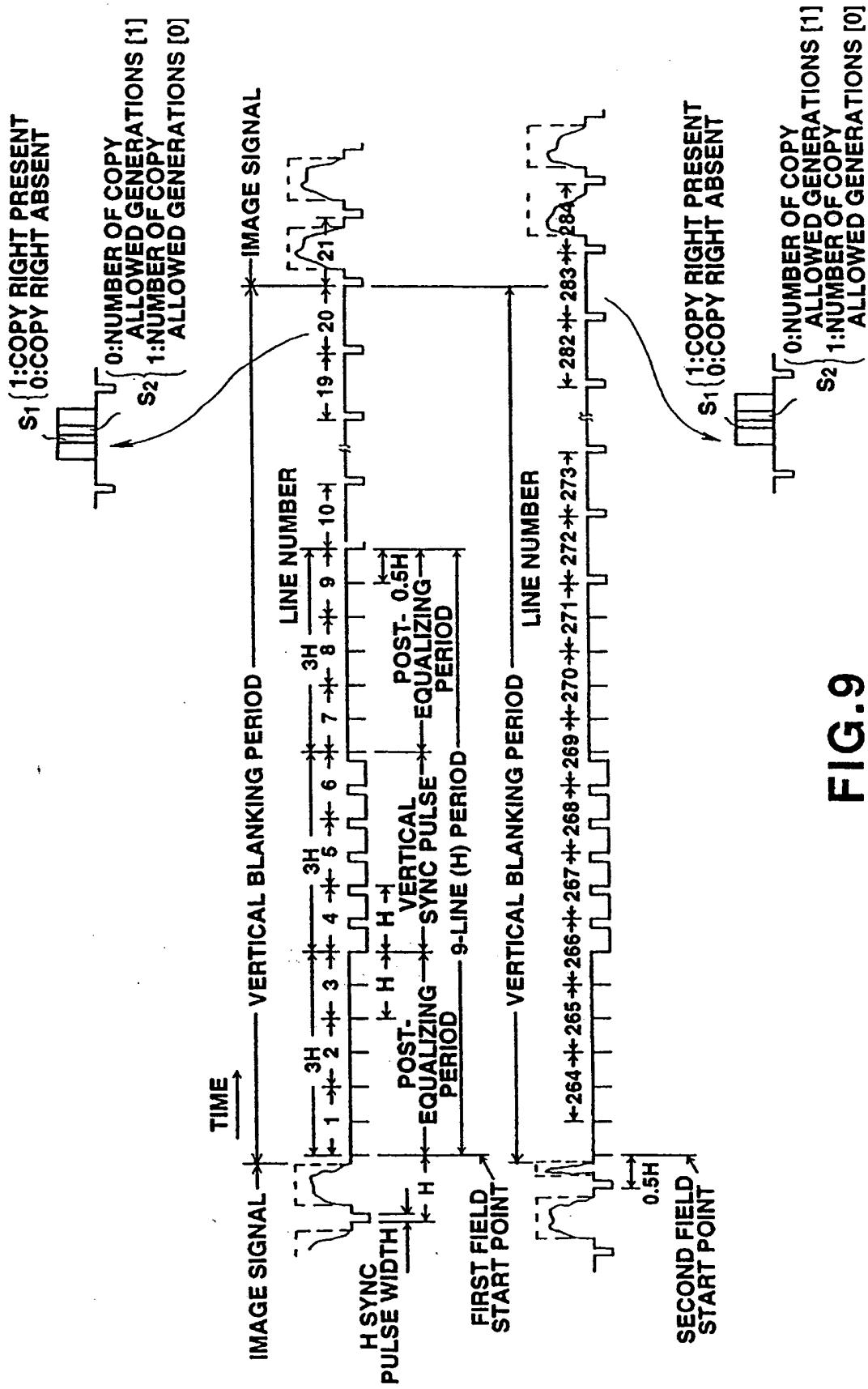
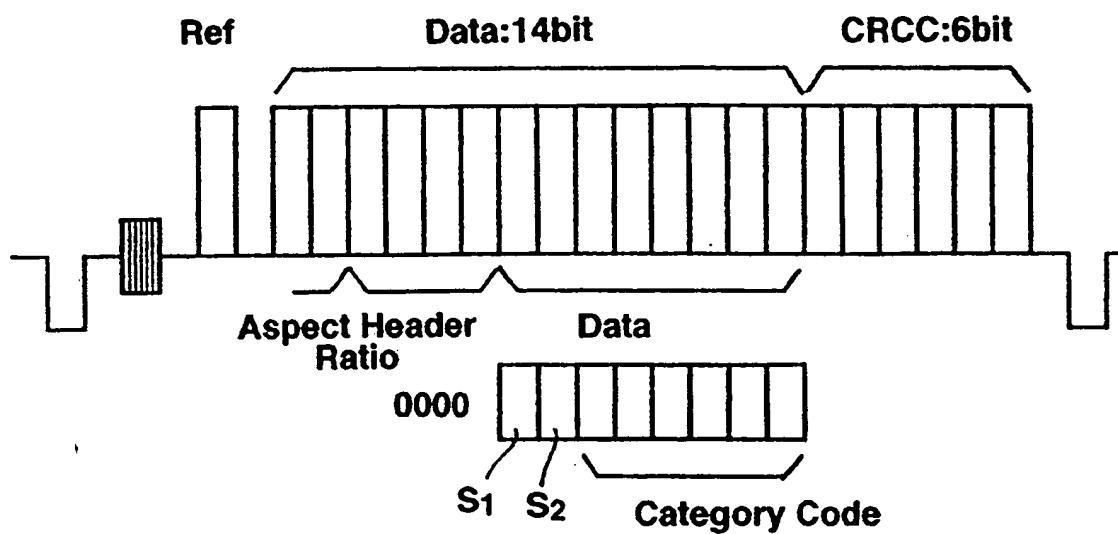
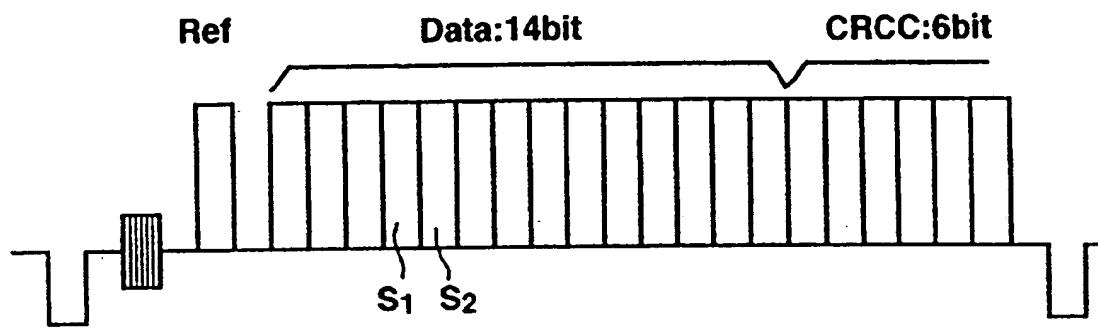
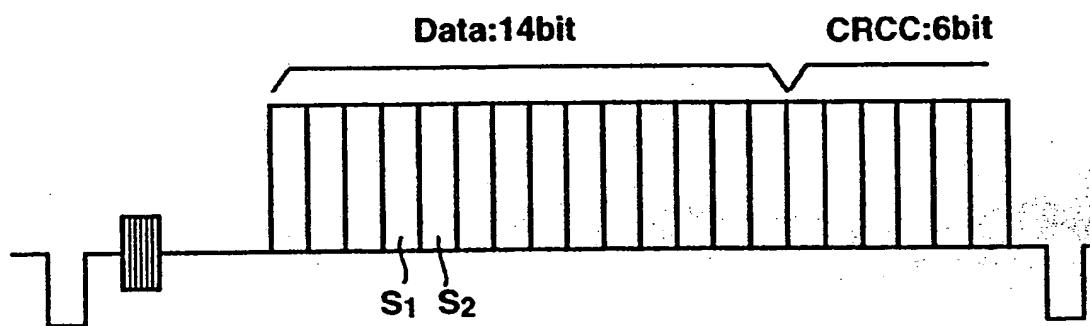


FIG.8



9.
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**FIG.10**

**FIG.11****FIG.12**

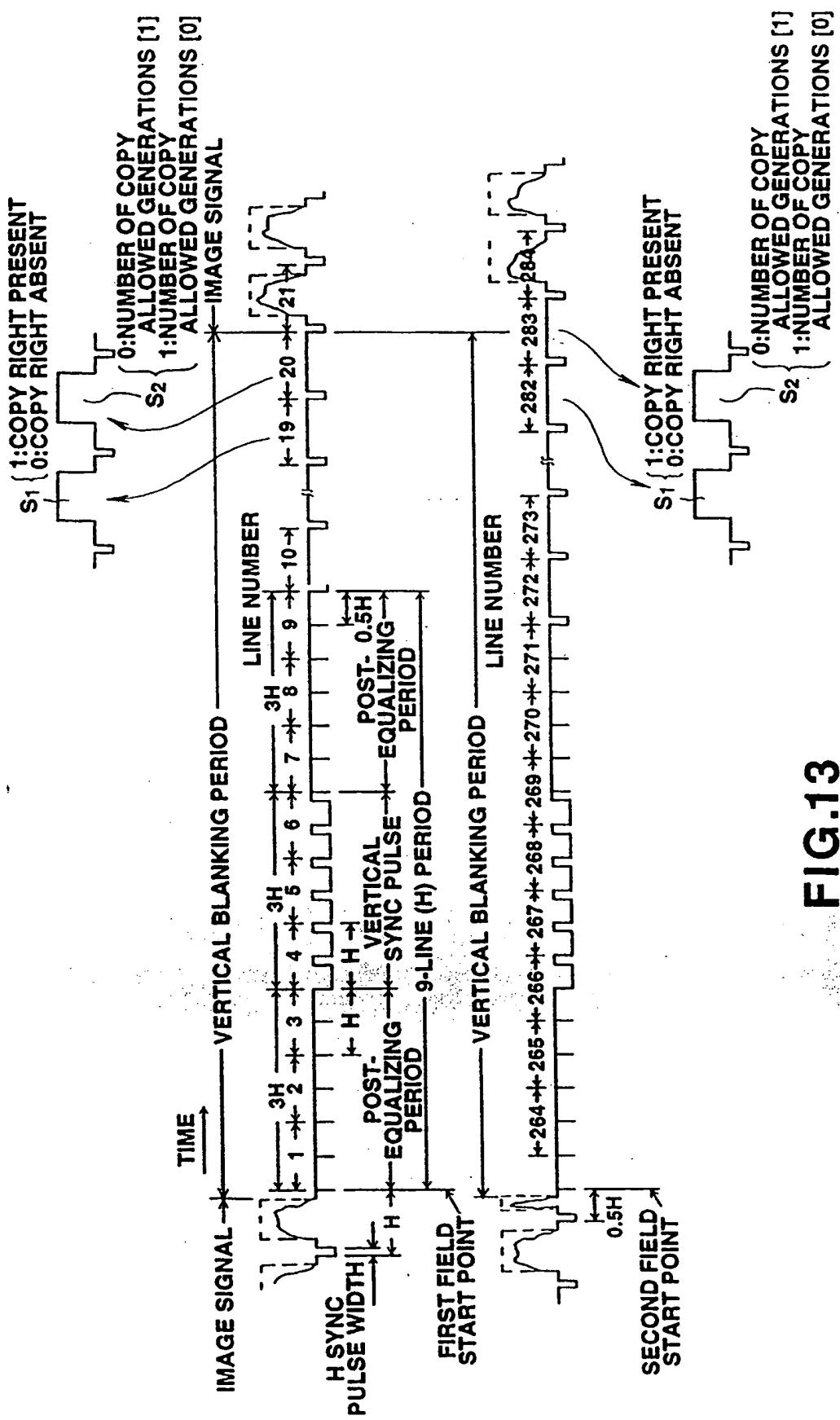


FIG. 13

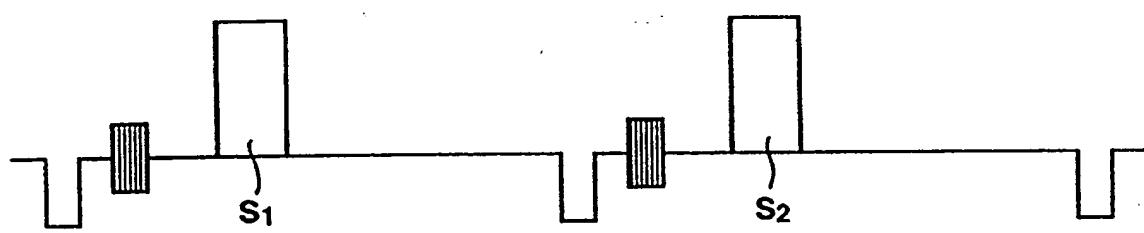


FIG.14

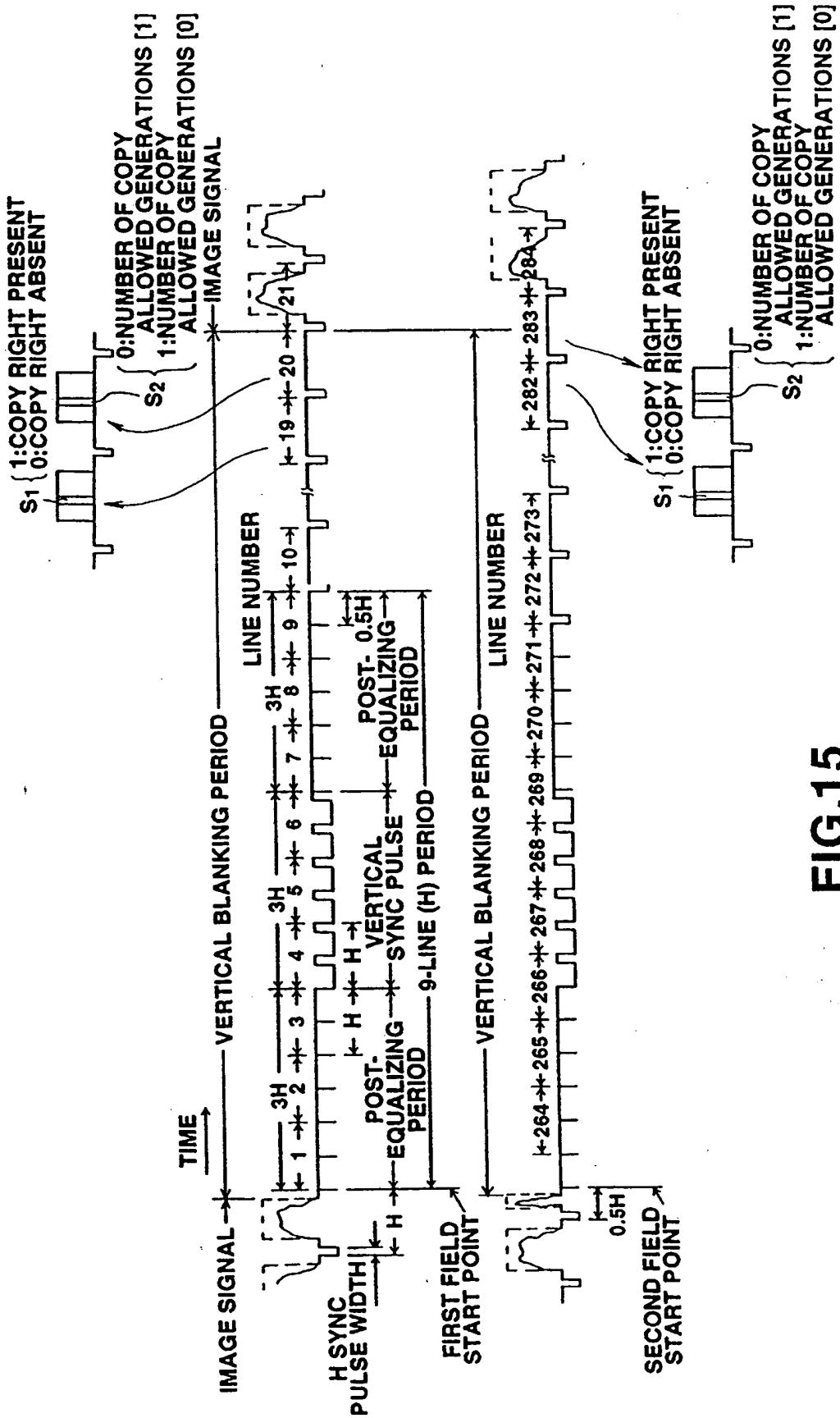


FIG. 15

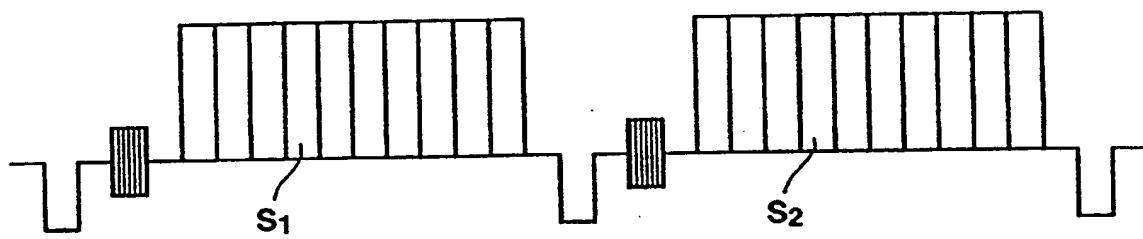
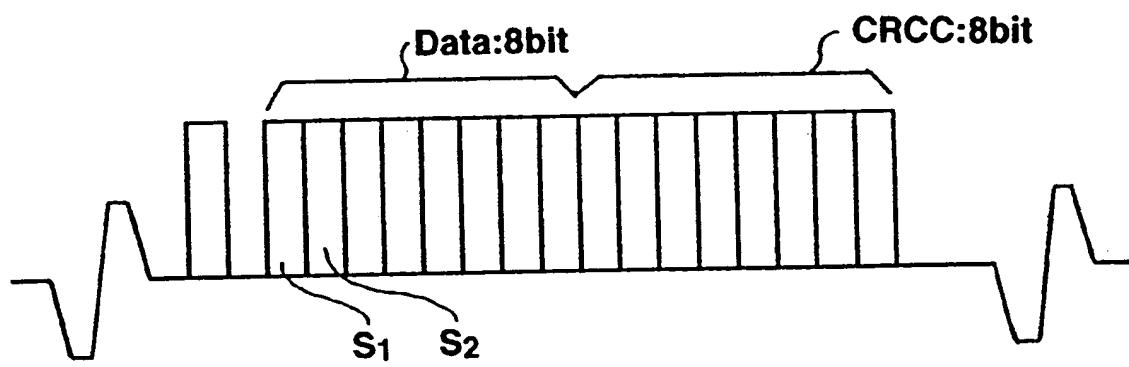


FIG. 16

**FIG.17**

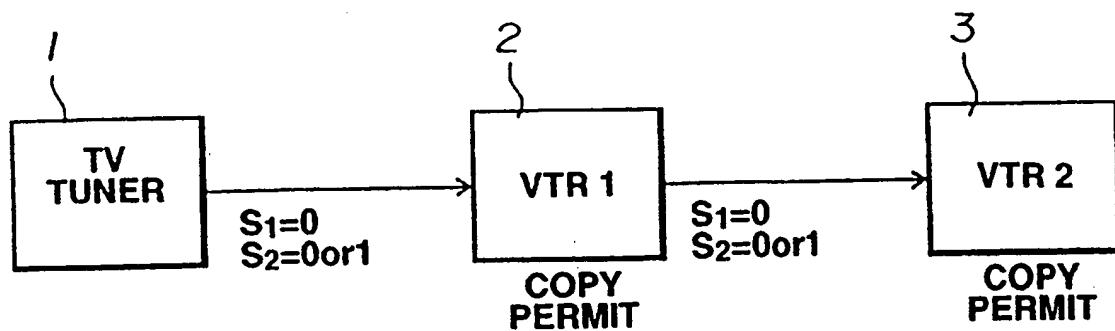


FIG.18

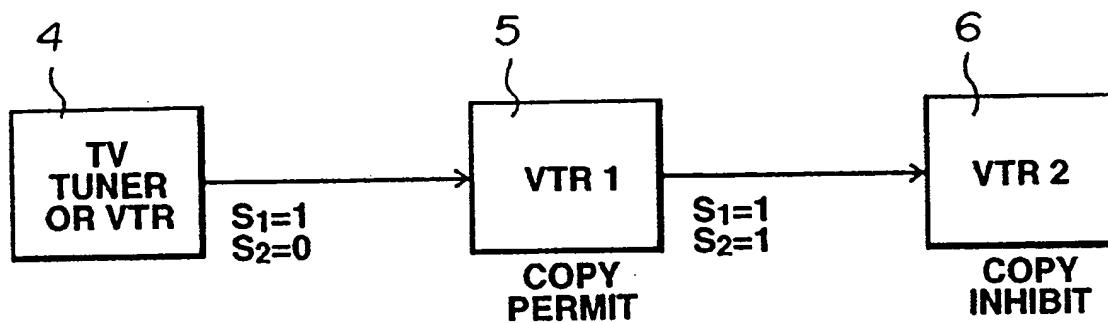


FIG.19

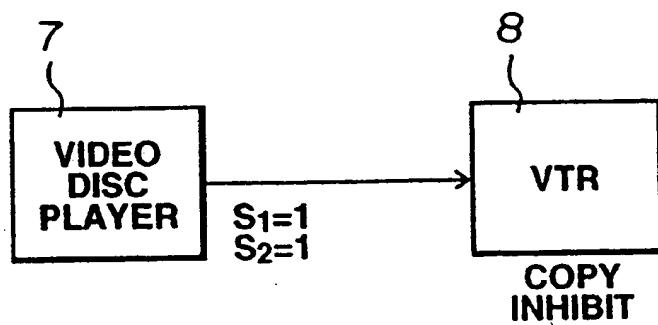


FIG.20

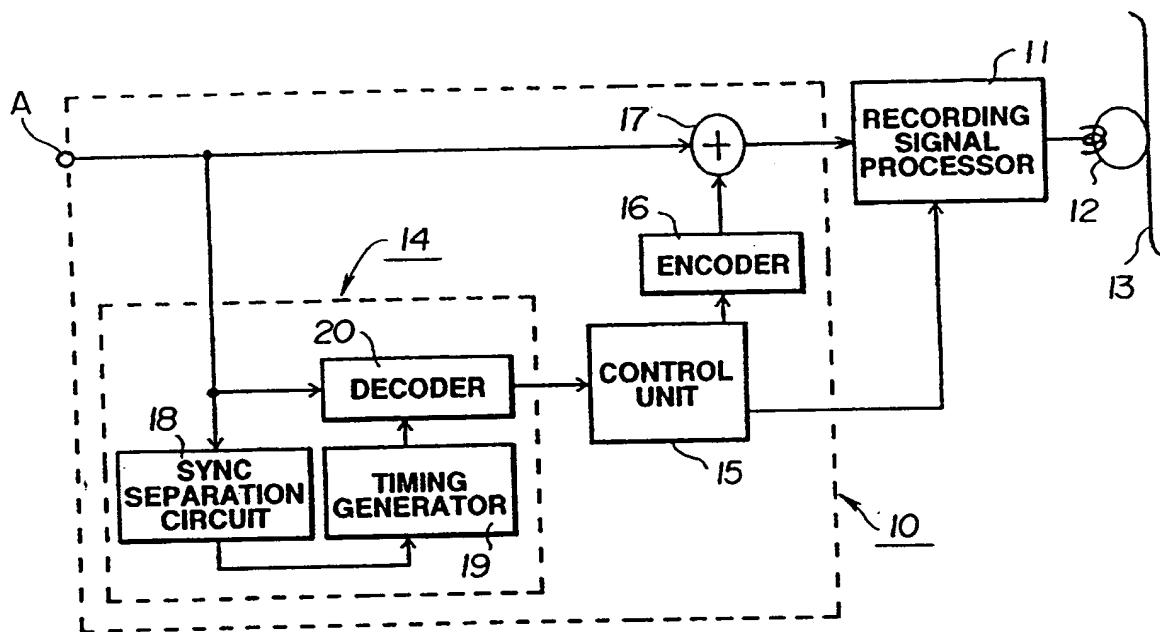


FIG.21

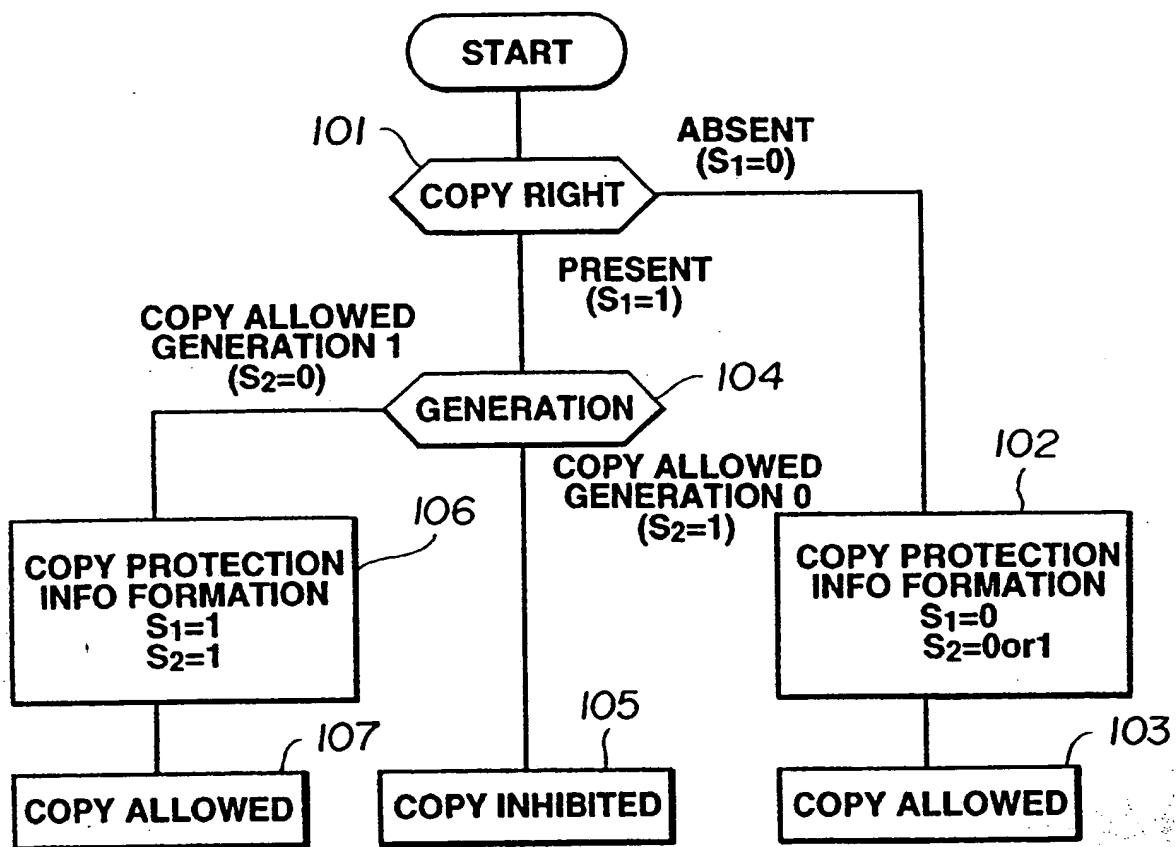


FIG.22

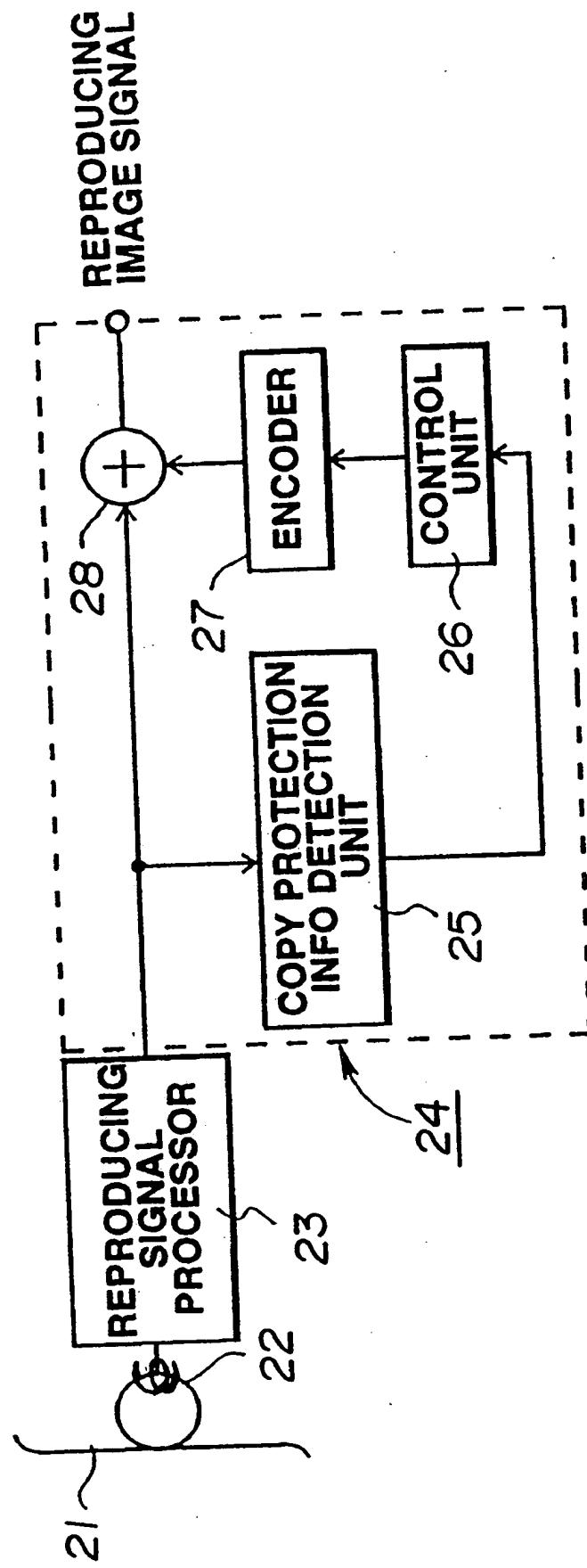


FIG.23

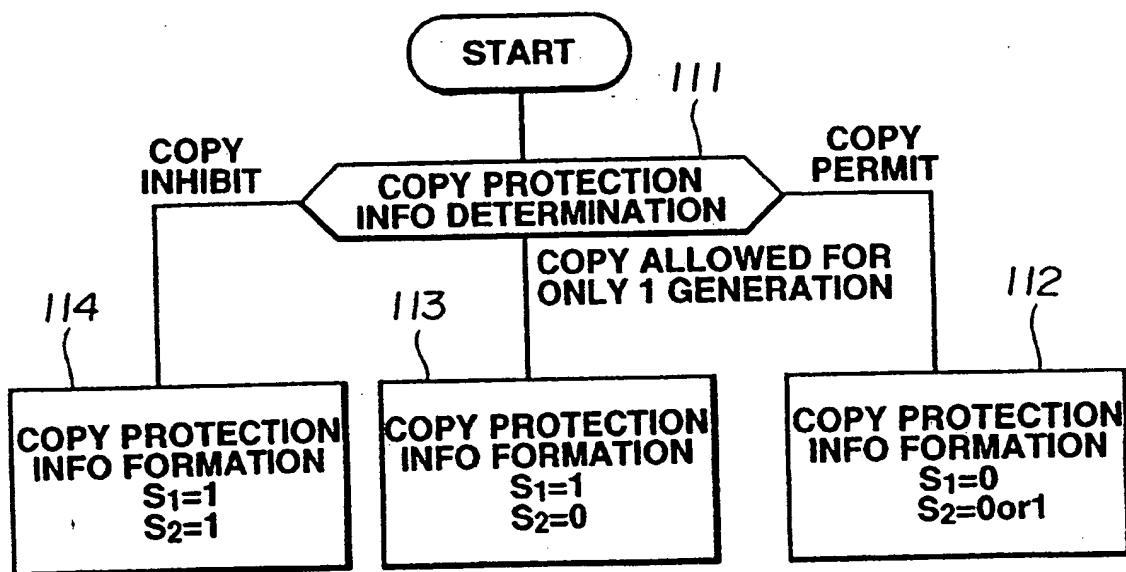


FIG.24

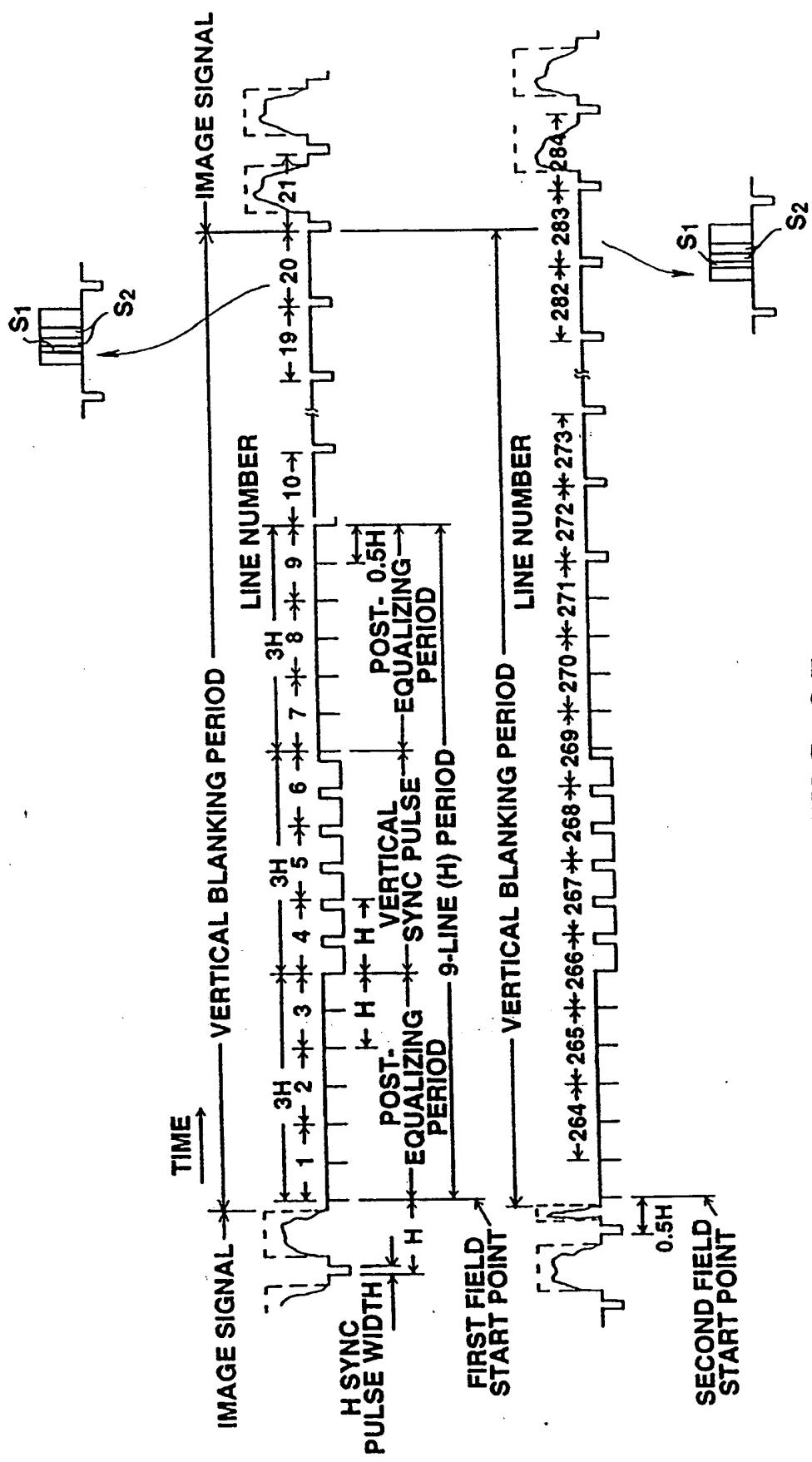


FIG. 25

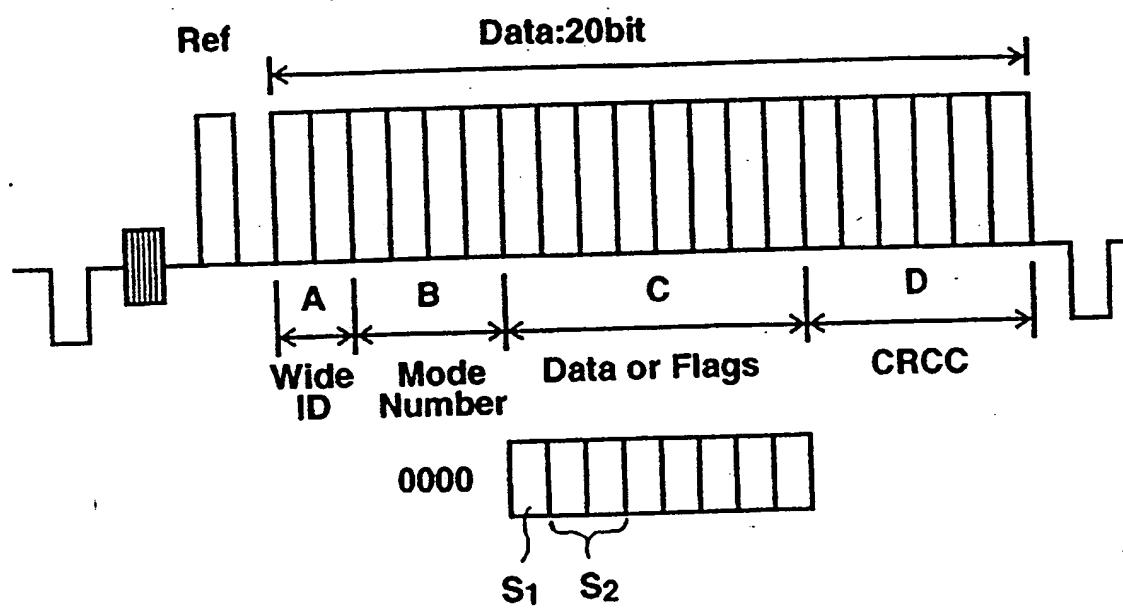


FIG.26

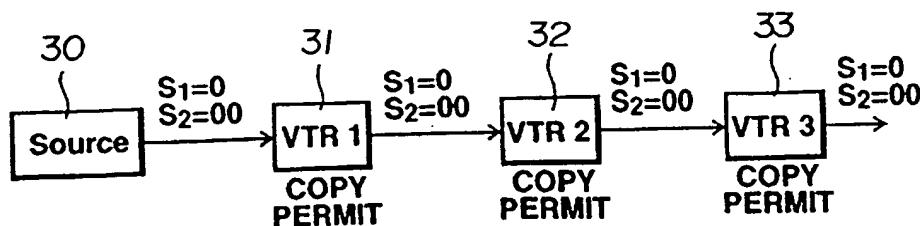


FIG.27

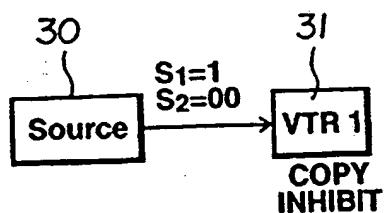


FIG.28

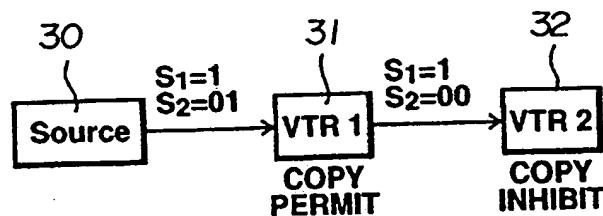


FIG.29

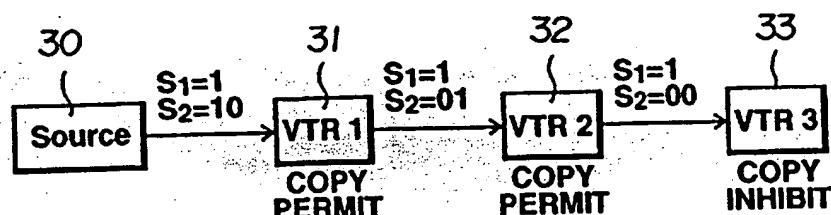


FIG.30

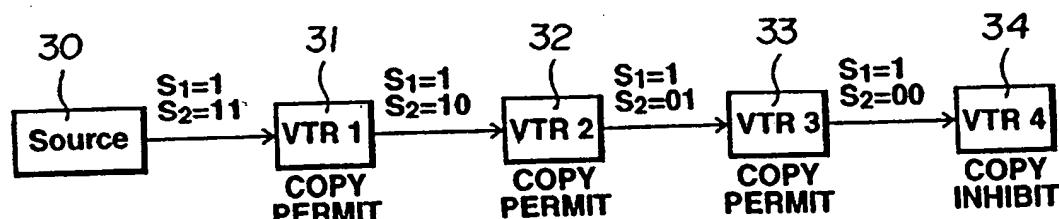


FIG.31